Supplemental Specification
2005 Standard Specification Book

SECTION 13591M

TRAFFIC MONITORING DETECTOR LOOP

Delete Article 1.3 paragraph B.

Delete Article 3.1 paragraph A and replace with the following:

A. The number of loops and the number of lanes varies based on location shown in the contract.

Delete Article 3.2 paragraphs D and E and replace with the following:

D. Minimum distance between saw-cut and transverse joints, or between adjacent lead-in saw cuts: 1½ ft.

E. Loop Spacing: 21½ ft between leading edges.
Maximum tolerance: 1 inch.

Delete Article 3.2 paragraph G and replace with the following:

G. Use wet vacuum or appropriate remediation to prevent saw-cutting water and residue from flowing into live traffic lanes.

Delete Article 3.3 paragraph A and replace with the following:

A. Follow Section 02892.

Delete Article 3.3 paragraphs E and F and replace with the following:

E. Seal loop wire ends immediately upon installation with waterproof coating, coil neatly, and place in a junction box.

F. Install Loop Sealant
1. Fill and encapsulate loop and lead-in wires a minimum depth of 3 inches from the pavement surface.
2. Install embedding loop sealant in saw cuts allowing $\pm\ ^{1}/_{4}$ inch from the top of the pavement after curing and expansion is complete.
3. Allow sealant adequate time to cure under ambient environmental conditions before lane is re-opened to traffic.

4. Refer to manufacturer's specifications regarding expansion of sealant during curing period. Refer to Section 02892.

Delete Article 3.3 paragraphs I and J and replace with the following:

I. Concrete Pavement Exit
   1. Drill 2-inch diameter hole at 45-degree angle 1 ft from concrete edge.
   2. Install conduit originating from splicing junction box to the pavement edge. Extend conduit 3 inches into drilled hole.
   3. Seal conduit after loop wires are installed and fill the hole to within 1½ inches of road surface with silica sand.
   4. Seal remaining hole in the road surface with loop sealant.

J. Conduit Connection to Junction Box
   1. Seal conduit with waterproof bushings. Refer to Section 13553.
   2. Fill voids resulting from entrance of conduit into junction box with hydraulic cement grout. Refer to Section 13554.

Delete Article 3.3 paragraph L.

Delete Article 3.4 paragraphs A and B and replace with the following:

A. Perform a Detector Loop Inductance & Resistance Test as described in Section 02892. Obtain UDOT's newest version at time of bid of the Detector Loop Inductance & Resistance Test form from the UDOT Web site. Refer to http://www.udot.utah.gov/index.php/m=c/tid=719. Submit Detector Loop Inductance & Resistance Test to the Engineer for acceptance.

B. Perform the Local Field Operations Test after all Traffic Monitoring Detector Loop elements, equipment and hardware, power supply, and connecting cabling have been installed.
   1. Perform testing after all construction for the site has been completed and the final road surface has been constructed.
      a. It is not necessary for the communications installation to be completed at the time of testing.
      b. It is not necessary that all stations be tested concurrently.